AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application;

--1. (Currently Amended) A battery charging/discharging apparatus for determining a remaining capacity of a battery, comprising:

measuring means for measuring a standby time during which the battery is in a standby mode;

correction value calculating means for calculating a correction value for the remaining capacity of the battery based on the standby time measured by said measuring means; [[and]]

correcting means for correcting a present remaining capacity value of the battery based on the correction value calculated by said correction value calculating means[[.]]; and

determining means for determining whether the standby time has reached a predetermined time,

wherein said correction value calculating means calculates the correction value for the remaining capacity of the battery at a predetermined time interval based on a result of said determining means.

--2. (Cancelled)

--3. (Currently Amended) A battery charging/discharging method of a battery charging/discharging apparatus for

determining a remaining capacity of a battery, said battery charging/discharging method comprising the steps of:

measuring a standby time during which the battery is in a standby mode;

calculating a correction value for the remaining capacity of the battery based on the standby time measured in the measuring step; [[and]]

correcting a present remaining capacity value of the battery based on the correction value calculated in the calculating step[[.]]; and

determining whether the standby time has reached a predetermined time,

wherein said step of calculating a correction value calculates the correction value for the remaining capacity of the battery at a predetermined time interval based on a result of said determining step.

--4-6. (Cancelled)

--7. (Currently Amended) Apparatus for determining a remaining capacity of a battery, the apparatus comprising:

a cell voltage detector for detecting a cell voltage;

a microcomputer for calculating a remaining battery capacity value based on a detected cell voltage from the cell voltage detector;

a memory for storing the remaining battery capacity value calculated by the microcomputer; and

a timer under control of the microcomputer for counting

time,

wherein when the ~~battery is in a standby mode the~~ microcomputer ~~sets itself in a sleep mode and starts the timer and when~~ <u>determines that</u> the battery ~~shifts from the standby mode to~~ <u>has been in</u> a charge/discharge mode <u>within a predetermined time as counted by</u> the timer ~~is stopped and an elapsed standby time is read out from the timer to the microcomputer, and wherein the microcomputer calculates a correction value based on the elapsed standby time read from the timer, wherein~~ <u>the cell voltage is detected by the cell voltage detector and</u> the remaining battery capacity is read out from the memory and ~~used~~ <u>compared</u> by the microcomputer ~~along with the correction value to calculate~~ <u>with the newly detected cell voltage and when the remaining battery capacity value is greater, the newly detected cell voltage is used as</u> an up-to-date remaining <u>battery</u> capacity value that is then stored in the memory.

--8. (Currently Amended) A method employing a microcomputer for determining a remaining capacity of a battery, the method comprising the steps of:

<u>detecting a battery voltage and storing the detected voltage as a remaining battery capacity value in a memory of the microcomputer;</u>

~~first~~ determining whether the battery has not been in a charge/discharge mode [[for]] <u>within</u> a predetermined period of time <u>as counted by a timer</u>;

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~~start measuring a standby time and set the microcomputer in a sleep mode~~ upon a determination in the step of ~~first~~ determining that the battery has ~~not~~ been in the charge/discharge mode within the predetermined period of time, newly detecting the battery voltage;

~~second determining whether the battery is placed in the charge/discharge mode following the step of start measuring;~~

~~stop measuring the standby time and provide the measured standby time to the microcomputer upon a determination in the second determining step that the battery is placed in the charge/discharge mode;~~

~~calculating a remaining capacity correction value using the measured standby time;~~

~~calculating an up-to-date remaining capacity value using the remaining capacity correction value and a previously calculated remaining capacity value read out from a memory of the microcomputer.~~

reading the remaining battery capacity value from the memory;

comparing the read-out remaining battery capacity value with the newly detected battery voltage;

upon a comparison result that the read-out remaining battery capacity value is greater, using the newly detected battery voltage as an updated remaining battery capacity vale; and

replacing the remaining battery capacity value stored in the memory with the updated remaining battery capacity value.